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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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Group 2700

In re Application of:
RYOZO SETOGUCHI
Serial No. 09/319,670
Filed: June 7, 1999
For: PARALLEL PROCESSING DEVICE FOR
GENERATING SHAPE AND/OR
DISPLAYING IMAGE



Group Art Unit: 2774
Examiner: unknown

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97(b)(3)

Hon. Commissioner of Patents and Trademarks
Washington, D.C. 20231

Dear Sir,

Pursuant to 37 CFR 1.56, 1.97 and 1.98, Applicant for the above-identified application hereby submits legible copies of the following relevant arts along with form PTO/SB/08A which contains the information required by 37 CFR 1.98(b):

- A. Article titled "Parallel Graphic Processing" published in Japan in 1991;
- B. Japanese Patent Application Laid-Open No H4-348485 published in Japan on December 3, 1992;
- C. Japanese Patent Application Laid-Open No. H2-219184 published in Japan on August 31, 1990;
- D. Article titled "Photo-Realistic Image Generation System for Realtime Animation" published in Japan on February 23, 1989; and
- E. Article titled "Graphics Processing System Using Multiprocessor-based Graphic Computer -MAGIC-" published in Japan on September 29, 1988.

The above-listed prior arts A through C, which are all in Japanese, are cited in the

International Search Report issued by Japanese Patent Office to the PCT Application No. PCT/JP96/03599, upon which the present US application was filed.

Though these prior arts are in non-English language, the Search Report (a copy thereof previously filed) is written in English and the degree of relevance is indicated therein by way of the markings of X and A along with the explanation of such markings. Accordingly, pursuant to MPEP Section 609, the requirement for a concise explanation of relevance pursuant to 37 CFR 1.1.98(a)(3) for each of these non-English language prior arts is satisfied, and an English concise explanation thereof is omitted herein.

The prior arts D and E were both cited in the International Preliminary Search Report (a copy thereof previously enclosed) issued by Japanese Patent Office to the above-identified PCT application. Since these prior arts are in non-English language, Japanese, a concise explanation of relevance of each one of these prior arts required pursuant to 37 CFR 1.1.98(a)(3) is presented below:


The prior art D discloses shaded image generator 2 (SIG 2) which is a multi process system for generating high-speed and high-quality images. SIG 2 has 36 unit-processors that are arranged parallel, and each of which has a maximum performance of 10 MIPA (million instructions per second) / 20 MFLOPS (mega floating-point operations per second). As described in the English Abstract of this prior art, these programmable unit-processors receive cod or data through VME-bus and execute instruction independently; and so as to perform high-speed image output to HDTC frame-memory, each unit-processor has high speed image bus interface whose band width is 10 million pixels per second, so that SIG 2 generates 10 photo--realistic 3-D image per second that have global illumination effect

The prior art E discloses an employment of four processing elements that are programmable and comprise a multiprocessor-based all-round graphic image computer (MAGIC)

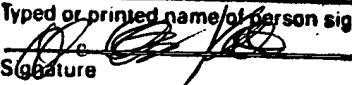
and perform parallel processing of computer graphics, thus realizing a fast computation environment for various image generating algorithms with the use of scan-line algorithm, ray-tracing algorithm and pixel-selected ray-tracing algorithm in addition to 3-D graphics description tools.

It is, therefore, hereby respectfully requested that the Patent Office make a record of these relevant arts and consider them during the examination of the above-identified application.

Respectfully submitted,
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